CLAIMS

1	1. A continuous, in-line process for making an ink-jet recording medium,			
2	comprising the steps of:			
3	a) applying a radiation-curable coating to a surface of a substrate material,			
4	b) irradiating the radiation-curable coating so that the coating undergoes a			
5	curing process, and			
6	c) applying an ink-receptive coating over the irradiated coating to form an			
7	ink-jet recording medium having a water vapor transmission rate of no			
8	greater than 12 grams / 100 square inches / 24 hours and a surface gloss of			
9	at least 70.			
1	2. The process of claim 1, wherein the radiation-curable coating is irradiated with			
2	ultraviolet light.			
1	3. The process of claim 1, wherein the radiation-curable coating is irradiated with			
2	electron beam radiation.			
•	4. The process of claim 1. forther communicing the stan of treating the irredicted			
1	4. The process of claim 1, further comprising the step of treating the irradiated			
2	coating with a corona discharge prior to applying the ink-receptive coating.			
1	5. The process of claim 1, further comprising the step of applying a coating			
2	comprising adhesion promoters over the irradiated coating prior to applying the			
3	ink-receptive coating.			
1	6. The process of claim 1, wherein the continuous, in-line process runs at a speed			
2	of at least about 60 feet per minute.			

1	7. The process of claim 1, wherein the radiation-curable coating comprises a			
2	radiation-curable oligomer and photoinitiator.			
3	8. The process of claim 1, wherein the ink-receptive coating comprises at least			
4	about 40% by weight water-soluble binder resin based on dry weight of the ink-			
5	receptive layer.			
1	9. The process of claim 8, wherein the water-soluble binder resin is selected from			
2	the group consisting of polyvinyl alcohols; poly(vinyl pyrrolidone); poly(2-ethyl-			
3	2-oxazoline); methylcellulose; poly(ethylene oxide); and copolymers and mixtures			
4	thereof.			
1	10. The process of claim 1, wherein the weight of the irradiated coating is in the			
2	range of about 1 to about 40 grams / square meter.			
2	range of about 1 to about 40 grains / square meter.			
1	11. The process of claim 1, wherein the weight of the ink-receptive coating is in			
2	the range of about 5 to about 50 grams / square meter.			
1	12. A continuous, in-line process for making an ink-jet recording medium,			
2	comprising the steps of:			
3	a) applying a radiation-curable coating to a surface of a substrate material,			
4	b) irradiating the radiation-curable coating so that the coating undergoes a			
5.	curing process, and			
6	c) applying an ink-receptive coating over the irradiated coating to form an			
7	ink-jet recording medium having a water vapor transmission rate of no			
8	greater than 12 grams / 100 square inches / 24 hours and a surface gloss in			
9	the range of 20 to 70.			

1	13. A	continuous, in-line process for making an ink-jet recording medium,
2	compr	ising the steps of:
3 .	a)	applying a radiation-curable coating to a surface of a substrate material
4	b)	irradiating the radiation-curable coating so that the coating undergoes a
5		curing process, and
6	c)	applying an ink-receptive coating over the irradiated coating to form ar
7		ink-jet recording medium having a water vapor transmission rate of no
8		greater than 12 grams / 100 square inches / 24 hours and a surface glos
9		less than 20.